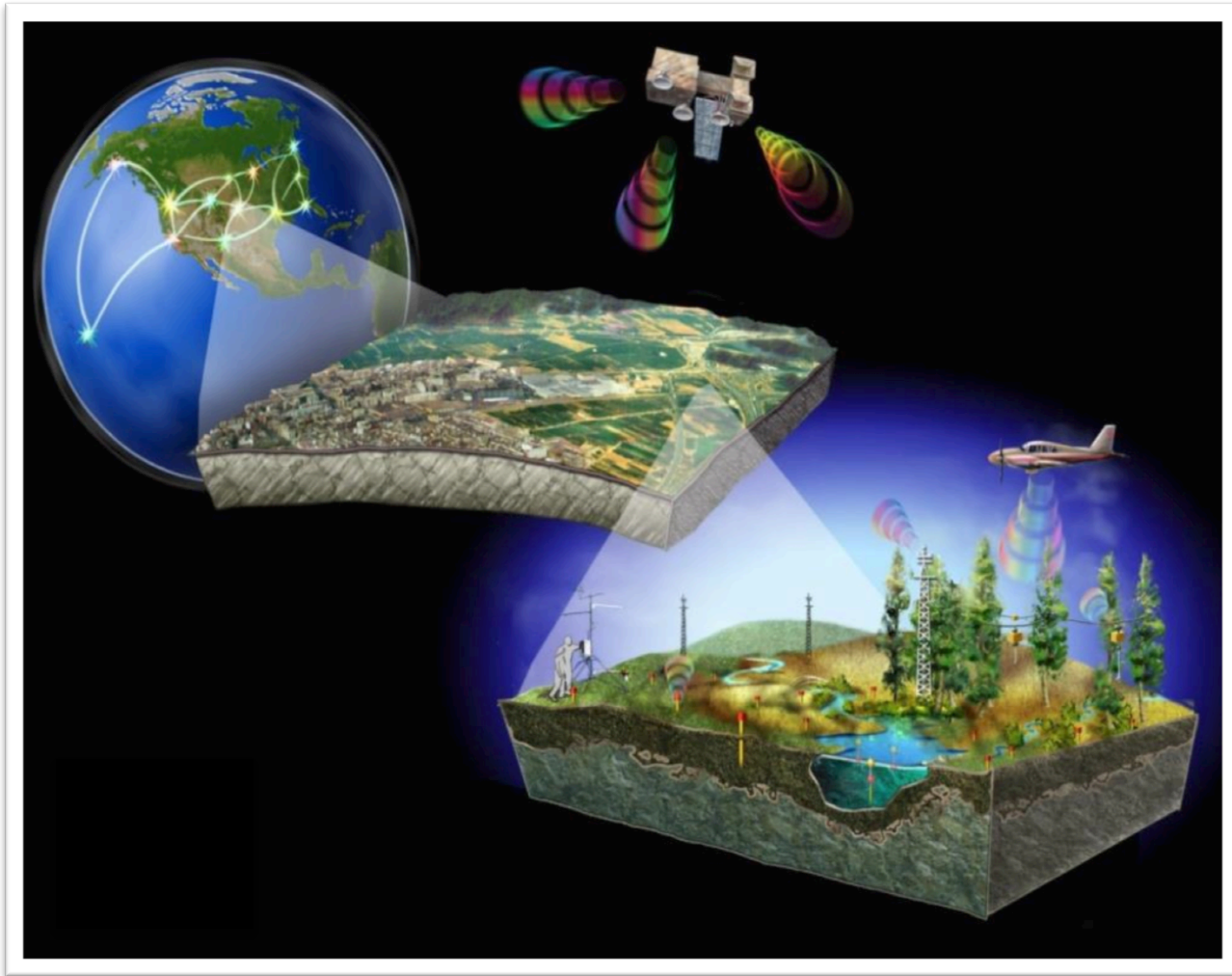


# National Ecological Observatory Network



The National Ecological Observatory Network will usher in a new era of observational science as the **first research observatory** designed to advance fundamental theories of life.

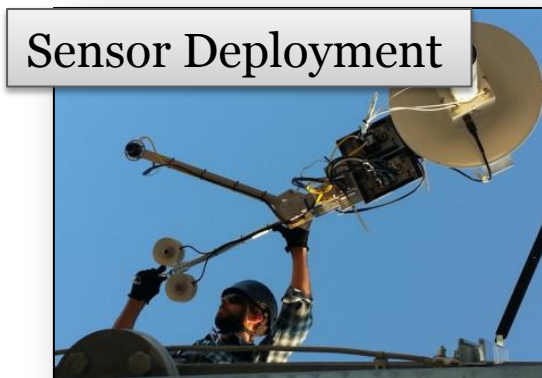
# Current Construction Status

- Civil Construction
  - 48 of 82 locations
- Sensor Deployment
  - 22 locations in 8 domains
- Biological Sampling
  - 29 of 82 locations
- Domain Field Offices
  - 16 of 20 operating with Domain Managers hired

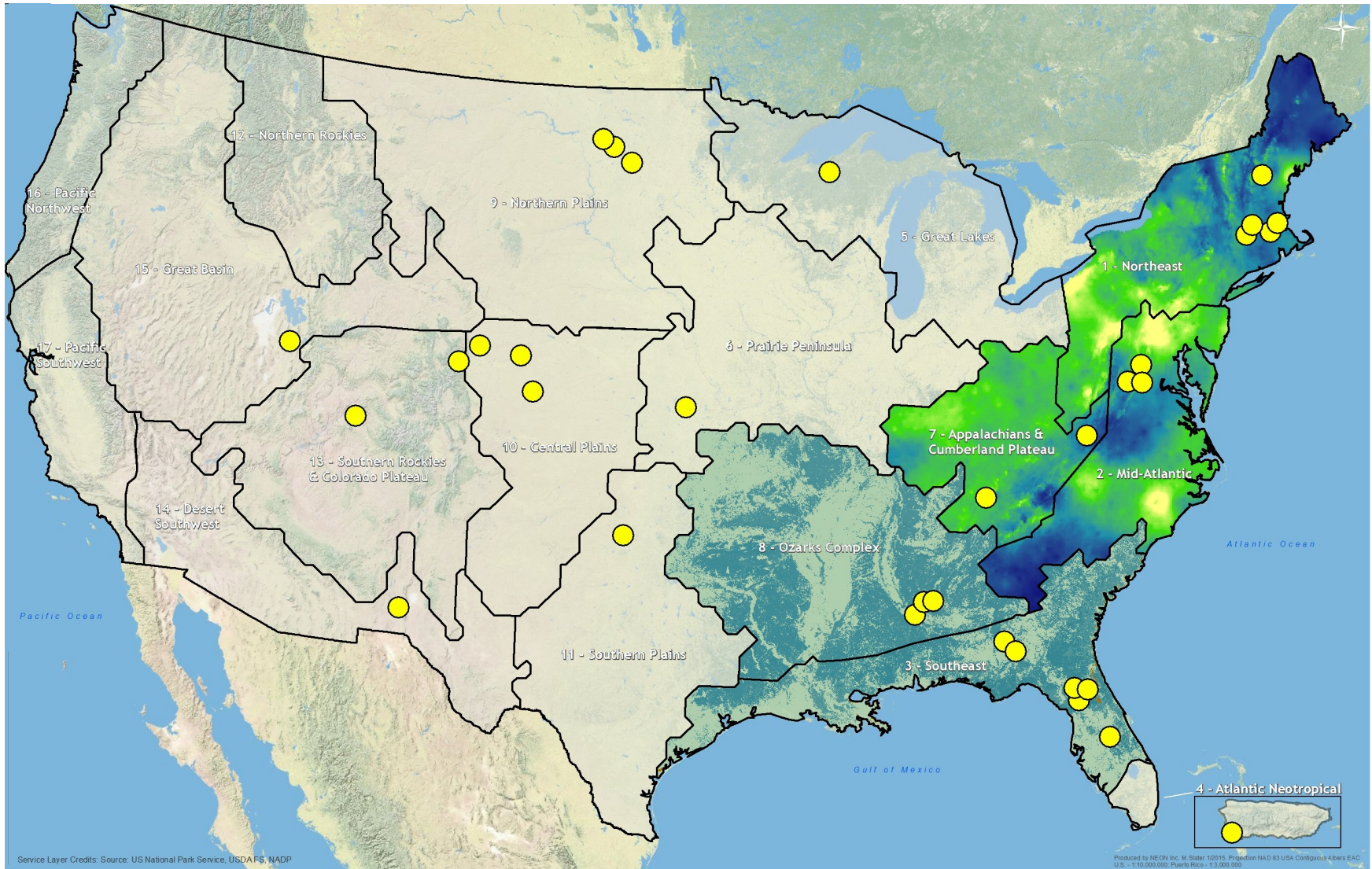
## Three Airborne Observatory Platforms

- ✓ Pathfinder flight in July
- ✓ 6 domains have been remotely surveyed
- ✓ 2 research campaigns completed
- ✓ Payload Installation Facility occupied by Flight Operations

Data Products on NEON Portal  
34 sites for terrestrial and aquatic  
5 Domains for AOP



# Schedule Highlights



NEON's Initial Observatory Research Capability includes biological and sensor data across Domain gradients of nitrogen and landuse change and continental scale nitrogen and climate gradients along the east coast of the US. This capability was largely available in July.

# Initial Operations Capability

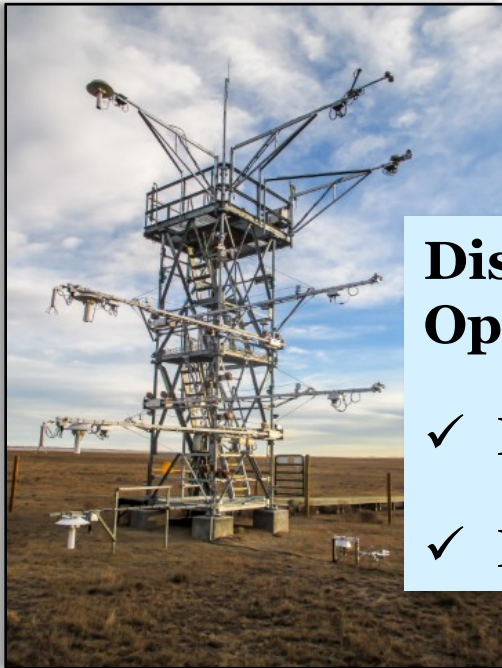
- Connection with Nitrogen deposition and forest management data
- Infrastructure
- Qualified processes of the Observatory
- Organismal sampling, laboratory analysis and collections
- AOP selected flight campaigns
- Mobile Deployment Platform prototype complete
- Meteorological, biological and remote sensing data available on the portal
- Educational programs
- Calibration and validation
- Domain support facilities (4)
- Web Portal



# Current Operations Status

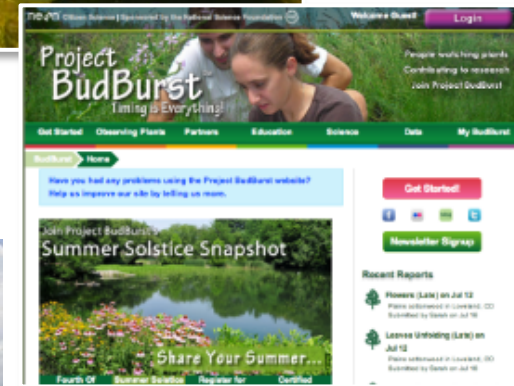
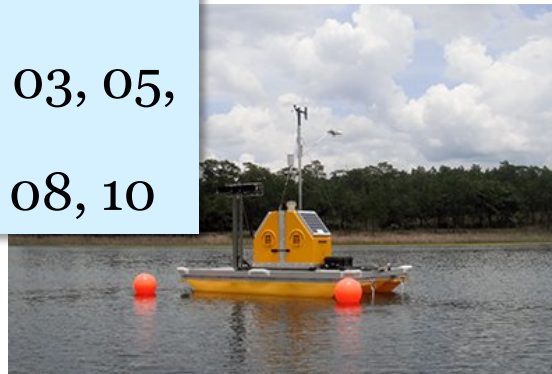
## Central Operations at NEON HQ in Boulder

- ✓ Calibration and Validation Lab
- ✓ Collections and Laboratory Analyses
- ✓ Project BudBurst/Citizen Science Academy



## Distributed Field Operations

- ✓ Domains 02, 03, 05,
- ✓ Domains 07, 08, 10



# NEON Data and Science



NEON Data



Solely funded by the  
National Science Foundation

neon

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DATA PORTAL

BROWSE DATA

DOCUMENTS

FAQ

DATA PRODUCT CATALOG

<http://data.neoninc.org/home>



WORK WITH DATA



NEON WORK WITH DATA

DATA TUTORIALS

ABOUT

DATA WORKSHOPS

R & PYTHON CHEATSHEETS

NEON WEBSITE

<http://neondataskills.org>

## 27 NEON EAGERs and Workshops to enable creative, collaborative use of ecological data

Probalistic forecasting of biodiversity response to intensifying drought by combining NEON, national climate species, and trait data bases.

Prototyping assessment of ecoclimate teleconnections affecting NEON domains.

Genomic plasticity in response to climate change.

Scaling up terrestrial plant phenology from individuals to continental scale.

# NEON Scope Management

## Essential NEON requirements during review

- Scope Management Plan and Evaluation
- Science Criteria and Requirements Driven
- Must maintain transformational capabilities

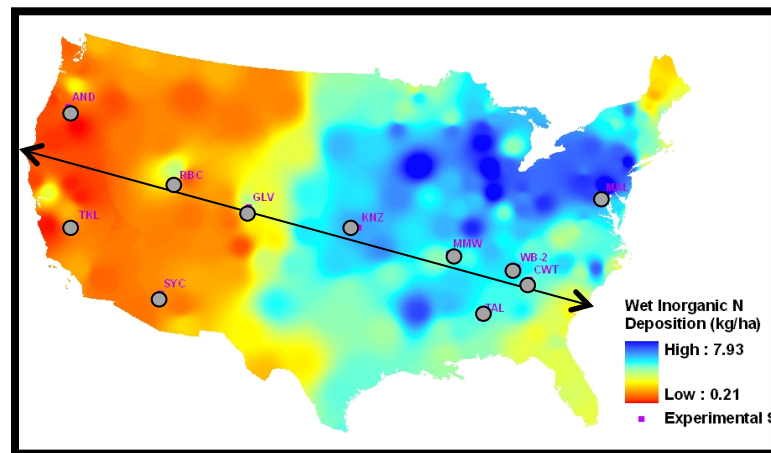
### Committee:

- Community experts
- NEON, Inc. Project, STEAC, Board
- NSF

## Cost Adjustments & Elements De-scoped

- Management and Transition Efficiencies (30%)
- Technology (Minirhizotrons, Biogenic Gases)
- Relocatables (Invasive species and Urban)
- STREON
- High Level Data Products

<http://www.neoninc.org/updates-events/update/scope-change-directives-designed-ensure-overall-success-neon-construction>



# NEON, Inc. Management

- Gene Kelly - Interim Chief Executive Officer
- Javier Marti – Project Manager
- Kirsten Ruiz – Acting Observatory Director
- Charlene Laus – Chief Financial Officer



Gene has a deep level of experience and reputation as a well-respected leader in the fields of soil science, ecosystem ecology and environmental sustainability. He served as Head of the Department of Soil and Crop Sciences. Concurrently, he has been Associate Director for Research and Development with CSU's School of Global Environmental Sustainability since 2008.